

## AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method comprising:  
gathering information relating to a processor, wherein the information comprises  
processor state information having one or more of characteristics of the  
processor, history of the processor, characteristics of a first virtual  
machine and a second virtual machine, history of the first and second  
virtual machines, and event monitoring data;  
evaluating the information relating to the processor; and  
managing the first virtual machine and the second virtual machine via the  
information, the managing of the first and second virtual machines  
including managing a predetermined processing time allocated to each of  
the first virtual machine and the second virtual machine, the managing  
further including dynamically allocating resources including extending,  
suspending, increasing, or decreasing the predetermined processing time  
allocated to the first virtual machine and/or the second virtual machine,  
wherein the dynamically allocating resources further includes switching  
tasks being performed on the first virtual machine to the second virtual  
machine when the second virtual machine is determined to be better at  
performing the tasks than the first virtual machine based on the  
information, suspending the predetermined processing time allocated to  
the first virtual machine and extending a predetermined processing time  
allocated to the second virtual machine by granting the suspended  
predetermined processing time allocated to the first virtual machine to the

second virtual machine, wherein the predetermined processing time is allocated by a central processing unit to perform the tasks.

2. (Previously Presented) The method of claim 1, further comprising monitoring the processor.

Claims 3-6 (Cancelled)

7. (Previously Presented) The method of claim 1, wherein the managing of the first and second virtual machines is performed by a virtual machine manager (VMM) comprising a state management unit.

Claims 8-16 (Cancelled)

17. (Previously Presented) A system comprising:
  - a storage medium to store information relating to a processor coupled with the storage medium; and
  - a processor having a virtual machine manager (VMM), wherein the VMM to gather information relating to the processor, wherein the information comprises processor state information having one or more of characteristics of the processor, history of the processor, characteristics of a first virtual machine and a second virtual machine, history of the first and second virtual machines, and event monitoring data,
  - evaluate the information relating to the processor, and
  - manage a first virtual machine and a second virtual machine via the information, the managing of the first and second virtual machines including managing a predetermined processing time allocated to each of the first virtual machine and the second virtual machine, the managing further including dynamically allocating resources

including extending, suspending, increasing, or decreasing the predetermined processing time allocated to the first virtual machine and/or the second virtual machine, wherein the dynamically allocating resources further includes switching tasks being performed on the first virtual machine to the second virtual machine when the second virtual machine is determined to be better at performing the tasks than the first virtual machine based on the information, suspending the predetermined processing time allocated to the first virtual machine and extending a predetermined processing time allocated to the second virtual machine by granting the suspended predetermined processing time allocated to the first virtual machine to the second virtual machine, wherein the predetermined processing time is allocated by a central processing unit to perform the tasks.

18. (Previously Presented) The system of claim 17, wherein the VMM comprises a state management unit to monitor the processor.

Claims 19-20 (Cancelled)

21. (Previously Presented) The system of claim 17, wherein the processor comprises one or more of microprocessors, hyperthreaded processors, digital signal processors, and microcontrollers.
22. (Cancelled)
23. (Previously Presented) The system of claim 17, wherein the first and second virtual machines comprise guest software, the guest software having one or more of an operating software and a software application.

24. (Currently Amended) A computer-readable storage medium comprising instructions which, when executed by a processor, cause a machine to:
- gather information relating to a processor, wherein the information comprises
    - processor state information having one or more of characteristics of the processor, history of the processor, characteristics of a first virtual machine and a second virtual machine, history of the first and second virtual machines, and event monitoring data;
  - evaluate the information relating to the processor; and
  - manage a first virtual machine and a second virtual machine via the information,
    - the managing of the first and second virtual machines including managing a predetermined processing time allocated to each of the first virtual machine and the second virtual machine, the managing further including dynamically allocating resources including extending, suspending, increasing, or decreasing the predetermined processing time allocated to the first virtual machine and the second virtual machine, wherein dynamically allocating resources further includes switching tasks being performed on the first virtual machine to the second virtual machine when the second virtual machine is determined to be better at performing the tasks than the first virtual machine based on the information, suspending the predetermined processing time allocated to the first virtual machine and extending a predetermined processing time allocated to the second virtual machine by granting the suspended predetermined processing time allocated to the first virtual machine to the second virtual machine, wherein the predetermined processing time is allocated by a central processing unit to perform the tasks.

25. (Previously Presented) The computer-readable storage medium of claim 24, wherein the instructions which, when executed, further cause the machine to monitor the processor.

Claims 26-29 (Cancelled)

30. (Previously Presented) The computer-readable storage medium of claim 24, wherein the managing of the first and second virtual machines is performed by a virtual machine manager (VMM) comprising a state management unit.